CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.07/MP/CEMENT/2014-15

Date: 28.06.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. M. Prakash**, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains in Kashinagara main road in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 27.06.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

Note:

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Job No.: CTCE/BBMP/W.No.07/MP/SAND/2014-15 : 28.06.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. M. Prakash,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains in Kashinagara main road in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 27.06.2014

Date of Testing : 28.06.2014

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	99	4.95	4.95	95.1	90-100
2.36	222	11.10	16.05	84.0	75-100
1.18	425	21.25	37.30	62.7	55-90
600 Micron	422	21.10	58.40	41.6	35-59
300 Micron	493	24.65	83.05	17.0	8-30
150 Micron	250	12.50	95.55	4.5	

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Job No.: CTCE/BBMP/W.No.07/MP/AGG/2014-15 : 28.06.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. M. Prakash,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains in Kashinagara main road in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 27.06.2014

Date of Testing : 28.06.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25800

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1015	3.93	3.93	96.07	95-100
20	16725	64.83	68.76	31.24	30-70
10	5090	19.73	88.49	11.51	10-35
4.75	2605	10.10	98.59	1.41	

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Job No.: CTCE/BBMP/W.No.07/MP /STEEL/2014-15 28.06.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. M. Prakash**, Contractor, Bangalore.
Name of the Work	:	Improvements to roads and drains in Kashinagara main road in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 27.06.2014
Date of Test	:	28.06.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	547	13.05	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/MP/CUBE/2014-15 15.07.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. M. Prakash,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains in Kashinagara main road in Ward No.07 (Byatarayanapura) in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/ /2014-15 Dated: 27.06.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2014	15.07.2014	8.146	353.6	15.72
2	08.07.2014	15.07.2014	8.265	369.6	16.43
3	08.07.2014	15.07.2014	8.388	382.6	17.00

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